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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet

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Complete If Known

Application Number	10/751,009
Filing Date	12/31/2003
First Named Inventor	Samuel P. McManus et al.
Art Unit	Unassigned
Examiner Name	Unassigned

Attorney Docket Number SHE0074.00

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
Q/R	A	US- 2002/0102671	08/01/2002	Janda et al.	
	B	US- 2003/0157582	08/21/2003	Roisin et al.	
	C	US- 3,551,384	12/29/1970	Zeh	
	D	US- 3,668,183	06/06/1972	Hoy et al.	
	E	US- 3,779,986	12/18/1973	Smith et al.	
	F	US- 4,980,514	12/25/1990	Sanderson et al.	
	G	US- 4,992,204	02/12/1991	Kluger et al.	
	H	US- 5,002,998	03/26/1991	Carey et al.	
	I	US- 5,045,396	09/03/1991	Lin et al.	
	J	US- 5,138,095	08/11/1992	Speranza et al.	
	K	US- 5,149,806	09/22/1992	Moren et al.	
	L	US- 5,151,470	09/29/1992	Sanders et al.	
	M	US- 5,580,923	12/03/1996	Yeung et al.	
	N	US- 5,674,531	10/07/1997	Ahlers et al.	
	O	US- 5,723,289	03/03/1998	Eaton et al.	
	P	US- 5,733,968	03/31/1998	Moszner et al.	
	Q	US- 5,858,660	01/12/1999	Eaton et al.	
Q/R	R	US- 5,932,641	08/03/1999	Blanchard et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
Q/R	V	CA 1148166	06/14/1983	Ausonia Farmaceutici s.r.l.		
	W	DE 10126158	12/12/2002	Novira Chem GmbH		
	X	DE 3334209	04/04/1985	Henkel KGaA		
	Y	EP 0361704	04/04/1990	Imperial Chem. Industries PLC		
Q/R	Z	EP 0 400 486	12/05/1990	Sumitomo Pharm. Co., Ltd.		

Examiner Signature	<i>A. Rogers</i>	Date Considered	6/16/06
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

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First Named Inventor	Samuel P. McManus et al.
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Attorney Docket Number	SHE0074.00

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0/1	AA	EP 0420232	04/03/1991	European Pharmacy Sri		
	AB	EP 0457128	11/21/1991	Mobay Corporation		
	AC	EP 0605963	07/13/1994	Ortho Pharm. Corp.		
↓	AD	EP 0634393	01/18/1995	Ivoclar Ag		
0/1	AE	EP 1174436	01/23/2002	Seiko Epson Corp.		

Examiner Signature	<i>J. Brown</i>	Date Considered	6-16-06
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JP	AF	EP 1310533	05/14/2003	Agfa-Gevaert		
JP	AG	JP 1-255620	10/12/1989			
JP	AH	JP 2000-129568	05/09/2000			
JP	AI	JP 2001-255620	09/21/2001			
JP	AJ	JP 2002-234940	08/23/2002			

Examiner Signature	<i>Johnna</i>	Date Considered	6/16/06
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Attorney Docket Number	SHF0074 00

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U. S. PATENT DOCUMENTS

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
QA	AK	JP	2-283659	11/21/1990			
1	AL	JP	60-212435	10/24/1985			
1	AM	JP	6-324421	11/25/1994			
↓	AN	JP	6-49471	02/22/1994			
07	AO	JP	6-9737	01/18/1994			

**Examiner
Signature**

John

Date
Considered

6/16/08

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
QN	AP	JP	7-159917	06/23/1995			
	AQ	JP	7-62279	03/07/1995			
	AR	JP	7-62594	03/07/1995			
↓	AS	WO	00/17398	03/30/2000	Nexstar Pharm. Inc.		
QV	AT	WO	00/44808	08/03/2000	Hubbell		

**Examiner
Signature**

Date
Considered

17/16/06

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
Q/A	AU	WO	01/04179	01/18/2001	The Dow Chem. Co.		
1	AV	WO	01/04183	01/18/2001	The Dow Chem. Co.		
1	AW	WO	01/92584	12/06/2001	Eidgenossische Tech. Hochschule		
V	AX	WO	03/004471	01/16/2003	Ciba Specialty Chem. Holding, Inc.		
Q/A	AY	WO	03/008646	01/30/2003	Surmodics, Inc.		

**Examiner
Signature**

I. Brown

Date
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6/16/06

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JR	AZ	WO	03/034995	05/01/2003	The Scripps Res. Inst.		
	BA	WO	90/00049	01/11/1990	Cetus Corp.		
	BB	WO	95/21631	08/17/1995	Nycomed Imaging AS		
	BC	WO	96/33156	10/24/1996	Lambson Fine Chem. Ltd.		
MR	BD	WO	96/33157	10/24/1996	Lambson Fine Chem. Ltd.		

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Application Number 12551886

Application Number: 10/751,009

Filing Date 12/31/2003

First Named Inventor

First Names (Wives)

Art Unit | Unsigned

Examiner Name _____

Examiner Name **Unassigned**

Attorney Docket Number **SHE0074.0**

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DOCUMENTS

U. S. PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
0/1	BE	WO 97/49664	12/31/1997	Lambson Fine Chem. Ltd.		
0/1	BF	WO 98/53857	12/03/1998	Mallinckrodt Med., Inc.		

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Q/M	BG	CORDOVA ET AL., "A Highly Chemo- and Stereoselective Synthesis of B-Keto Esters via a Polymer-Supported Lipase Catalyzed Transesterification," J. Org. Chem. 2001, Vol. 66, 1906-1909.	
	BH	HAAG ET AL., "New Polyethylene Glycol Polymers as Ketal Protecting Groups - A Polymer Supported Approach to Symmetrically Substituted Spiroketals," Synthetic Communications (2001), Vol. 31, No. 19, pp. 2965-2977.	
	BI	HAI ET AL., "Polymerization of Diaspirin Cross-Linked Hemoglobin (DCLHb) with Water-Soluble, Nonimmunogenic Polyamide Cross-Linking Agents," Bioconjugate Chem. (1999), Vol. 10, pp. 1013-1020.	
	BJ	HERMAN ET AL., "Poly(Ethylene Glycol) with Reactive Endgroups: I. Modification of Proteins," J. of Bioactive and Compatible Polymers, Vol. 10, April 1995, pp. 145-187.	
	BK	HUANG ET AL., "The Synthesis of Polyethylene Glycol (PEG) with Different Functional Groups at Each End. II. Synthesis of a Series of Monosubstituted PEG via Polyvinyl Alcohol (PVA) as Support," J. of Applied Polymer Sci. (1993), Vol. 47, pp. 1503-1511.	
	BL	MOHSENI ET AL., "Condution and electrooptical properties of vanadium-containing polymer electrolyte networks from sol-gel methods with modified poly(ethylene glycol)s and poly(tetramethylene oxide)," J. Mater. Chem. (1999), Vol. 9, pp. 1363-1367.	
	BM	MOSZNER ET AL., "Reaction behaviour of monomeric B-ketoesters," Polymer Bulletin (1994), Vol. 32, pp. 411-417.	
	BN	NAKA ET AL., "Synthesis of a star-shaped polymer having tris (B-diketonato)chromium(III) at the center core," Polymer Bulletin (1998), Vol. 41, pp. 263-266.	
	BO	PANDE ET AL., "Camphorquinone-10-sulfonic acid and derivatives: Convenient reagents for reversible modification of arginine residues," Proc. Natl. Acad. Sci. USA, Vol. 77, No. 2, pp. 895-899, February 1980, Biochemistry.	
Q/M	BP	PARR ET AL., "Factors influencing the retention and chemical stability of poly(ethylene glycol)-lipid conjugates incorporated into large unilamellar vesicles," Biochimica et Biophysica Acta 1195 (1994), pp. 21-30.	

Examiner Signature	<i>J. Roy</i>	Date Considered	6/16/06
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Substitute for form 1449B/PTO				Complete if Known	
				Application Number	10/751,009
				Filing Date	12/31/2003
				First Named Inventor	Samuel P. McManus et al.
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	2	Attorney Docket Number	SHE0074.00

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
Q/R	BQ	SELIGER ET AL., "Two-carrier liquid-phase synthesis of main-chain liquid crystalline oligomers and characterization of the products," Fresenius J. Anal. Chem. (1995), Vol. 351, pp. 260-270.			
	BR	NOF Corporation, Catalog 2003 - 1st: PEG Derivatives, Phospholipid and Drug Delivery Materials for Pharmaceuticals, Tokyo, Japan, 1-46.			
	BS	Shearwater Polymers, Inc., Catalog 1995: Polyethylene Glycol Derivatives, Huntsville, AL, pp. 2-49.			
	BT	Shearwater Polymers, Inc., Catalog 1997-1998: Polyethylene Glycol Derivatives, Huntsville, AL, pp. 1-53.			
	BU	Shearwater Polymers, Inc., Catalog 2001: Polyethylene Glycol and Derivatives for Biomedical Applications, Huntsville, AL, pp. 1-17.			
	BV	Nektar Therapeutics, Nektar Molecule Engineering Catalog 2003: Polyethylene Glycol and Derivatives for Advanced PEGylation, pp. 1-20.			

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